

METHOD FOR MEASURING STRESS
LEVELS IN POLYMERIC COMPOSITIONS

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Abstract of the Disclosure

10 A method for measuring the level of stress in a
polymeric or pre-polymeric composition within a given
volume that includes combining the polymeric or pre-
polymeric composition with a plurality of
microparticles having a non-ferromagnetic or non-
ferrimagnetic core provided with a coating that is
15 ferromagnetic or ferrimagnetic to form an admixture in
which the microparticles are substantially uniformly
dispersed throughout the composition. The
microparticles have a detectable magnetic
characteristic which correlates with level of stress in
20 the composition within a given volume. The change in
the magnetic characteristic of the microparticles is
then measured to determine the level of stress in the
composition within a given volume.